

AMENDMENTS TO THE CLAIMS

1. (Original) A liquid crystal display comprising:

a first substrate having a shade film formed in contact with an outer edge portion of a display region;

a second substrate having a display electrode for displaying on a picture plane, an electrode leading wire having a shading characteristic and lead from said display electrode to outside of said display region, and a shade film formed on the outside of said display region; and

a seal resin of ultraviolet hardening type to adhere said first substrate and the second substrate oppositely to each other and for sealing a liquid crystal held between the first substrate and the second substrate;

wherein the shade film formed on the first substrate and the shade film formed on the second substrate are formed to be continuous between the first substrate and the second substrate oppositely arranged, the shade film is formed either on the first substrate or on the second substrate in a portion where the seal resin is applied, and ultraviolet rays can transmit through the remaining substrate.

Claims 2-12 (Cancelled)

13. (New) A manufacturing process of a liquid crystal display, comprising the steps of:

providing a first substrate having a display region, an outside edge portion positioned outside of the display region, and a first shade film formed on the outer edge portion;

providing a second substrate having a display region opposing to the display portion of the first substrate, an outside edge portion opposing to the outside edge portion of the first substrate, electrodes for displaying on the display portion, an electrode leading wires having shading characteristics and lead from the display electrodes to outside of the display region, and a second shade film formed on the outside edge portion of the second substrate;

forming a combination of the first substrate and the second substrate oppositely to each other with a seal resin of ultraviolet ray hardening type between the outside edge portions of the first and second substrates, wherein the first and second shade film are formed to give a peripheral shading width formed by putting together the width of the first shade film and the width of the second shade film and in a portion where the seal resin is applied only the second shade film among the first and second shade film is formed on the outside edge portion of the first substrate, and ultraviolet ray can be transmitted through the outside edge portion of the first substrate;

sealing a liquid crystal held between the first substrate and the second substrate with the seal resin; and

hardening the seal resin by irradiation to one side of the first substrate of the combination with ultraviolet ray.

14. (New) A manufacturing process of a liquid crystal display, comprising the steps of:
providing a first substrate having a display region, first and second outside edge portions positioned outside of the display portion, and a first shade film including a first portion formed on the first outside edge portion and a second portion formed on the second outside edge portion;

providing a second substrate having a display portion opposing to the display region of the first substrate, first and second outside edge portions opposing to the first and second outside edge portions of the first substrate respectively, electrodes for displaying on the display region, electrode leading wires having shading characteristics and lead from the display electrodes to the second outside edge portion of the second substrate, and a second shade film formed on the only second outside edge portion among the first and second outside edge portions of the second substrate;

forming a combination of the first substrate and the second substrate oppositely to each other with a seal resin of ultraviolet ray hardening type, the seal resin includes a first portion between the first outside edge portions of the first and second substrate, and a second portion between the second outside edge portions of the first and second substrates;

sealing a liquid crystal held between the first substrate and the second substrate with the seal resin, wherein the ultraviolet ray can be transmitted to the first portion of the seal resin through the first outside edge portion of the second substrate, and the second portion of the first shade film and the second shade film formed on the second outside edge portion of the second substrate are formed to give a peripheral shading width formed by putting together the width of the second portion of the first shade film and the width of the second shade film and in a portion where the second portion of the seal resin is applied only the second shade film among the first and second shade film is formed on the second outside edge portion of the second substrate, and ultraviolet ray can be transmitted through the second outside edge portion of the first substrate; and

hardening the seal resin by irradiations to the two sides of the combination with ultraviolet rays.

15. (New) A manufacturing process of a liquid crystal display, comprising steps of:

providing a first substrate having a display region, an outside edge portion positioned outside of the display region, and a shade film on the outside edge portion, the shade film has plurality of first slits for transmitting ultraviolet ray;

providing a second substrate having a display region opposing to the display region of the first substrate, an outside edge portion opposing to the outside edge portion of the first substrate, display electrodes for displaying on the display region, and a shade material including electrode leading wires from the display electrodes to outside of the display region, the shade material has plurality of second slits for transmitting ultraviolet ray;

forming a combination of the first substrate and second substrate oppositely to each other with a seal resin of ultraviolet ray hardening type between the outside edge portions of the first and second substrate, wherein the plurality of first slits and the plurality of second slits are arranged alternately between the first substrate and the second substrate arranged oppositely;

sealing a liquid crystal held between the first substrate and the second substrate with the seal resin; and

hardening the seal resin by irradiations to two sides of the combination with ultraviolet rays through the plurality of first slits and the plurality of second slits.

16. (New) The manufacturing process of the liquid crystal display according to claim 14, wherein the irradiations to the combination with the ultraviolet rays are performed simultaneously from two sides of the combination.

17. (New) The manufacturing process of the liquid crystal display according to claim 14, wherein the irradiations to the combination with ultraviolet rays are performed alternately one side after another.

18. (New) The manufacturing process of the liquid crystal display according to claim 14, wherein the irradiation for at least one side for the combination is performed only on the seal resin applied portion.

19. (New) The manufacturing process of the liquid crystal display according to claim 18, wherein the irradiation is performed through a shade plate having an ultraviolet ray transmitting region at the seal resin applied portion.

20. (New) The manufacturing process of the liquid crystal display according to claim 18, wherein the irradiation is performed through a fiber at seal resin applied portion.

21. (New) The manufacturing process of the liquid crystal display according to claim 13, wherein the irradiation for at least one side for the combination is performed only on the seal resin applied portion.

22. (New) The manufacturing process of the liquid crystal display according to claim 21, wherein the irradiation is performed through a shade plate having an ultraviolet ray transmitting region at the seal resin applied portion.

23. (New) The manufacturing process of the liquid crystal display according to claim 21, wherein the irradiation is performed through a fiber at seal resin applied portion.

24. (New) The manufacturing process of the liquid crystal display according to claim 15, wherein the irradiations to the combination with the ultraviolet rays are performed simultaneously from two sides of the combination.

25. (New) The manufacturing process of the liquid crystal display according to claim 15, wherein the irradiations to the combination with ultraviolet rays are performed alternately one side after another.

26. (New) The manufacturing process of the liquid crystal display according to claim 15, wherein the irradiation for at least one side for the combination is performed only on the seal resin applied portion.

27. (New) The manufacturing process of the liquid crystal display according to claim 26, wherein the irradiation is performed through a shade plate having an ultraviolet ray transmitting region at the seal resin applied portion.

28. (New) The manufacturing process of the liquid crystal display according to claim 26, wherein the irradiation is performed through a fiber at seal resin applied portion.